

	Document ID	Issue Date	Pages	Title	Current OR	Current XRef	Retrieval Classif
1	US 6037179 A	20000314	14	Method and apparatus for suppression of analyte diffusion in an ionization detector	436/52	422/103; 422/83; 436/153; 436/174; 436/181	
2	US 5153519 A	19921006	11	High voltage spark excitation and ionization detector system	324/464	324/123R; 324/449; 73/28.02	
3	US 4975648 A	19901204	6	Discharge ionization detector	324/464	315/111.11; 315/111.91; 324/459	

L Number	Hits	Search Text	DB	Time stamp
2	49	("6029631" "6111740" "4855566" "4905251" "6328016" "5767683" "3612880" "4349782" "5216369" "4308488" "4871307" "5909086" "6058698" "4266196" "5317271" "5394091" "5394092" "5532599" "5541519" "4589398" "4491949" "5530365" "5874703" "5754581" "5949193" "4317067" "4556981" "4837773" "4897577" "5444334" "5465030" "5854732" "6172468" "5282108" "6126435" "4804846" "5180983" "5293130" "5675072" "5444596" "5663864" "3814950" "4151446" "4369776" "4390771" "4476366" "4868546" "4994716" "5502354").pn.	USPAT; US-PGPUB	2002/07/31 08:43
4	69710	ioniz\$5	USPAT; US-PGPUB	2002/07/31 08:43
5	47	((("6029631" "6111740" "4855566" "4905251" "6328016" "5767683" "3612880" "4349782" "5216369" "4308488" "4871307" "5909086" "6058698" "4266196" "5317271" "5394091" "5394092" "5532599" "5541519" "4589398" "4491949" "5530365" "5874703" "5754581" "5949193" "4317067" "4556981" "4837773" "4897577" "5444334" "5465030" "5854732" "6172468" "5282108" "6126435" "4804846" "5180983" "5293130" "5675072" "5444596" "5663864" "3814950" "4151446" "4369776" "4390771" "4476366" "4868546" "4994716" "5502354").pn.) and ioniz\$5	USPAT; US-PGPUB	2002/07/31 08:43
6	41	((("6029631" "6111740" "4855566" "4905251" "6328016" "5767683" "3612880" "4349782" "5216369" "4308488" "4871307" "5909086" "6058698" "4266196" "5317271" "5394091" "5394092" "5532599" "5541519" "4589398" "4491949" "5530365" "5874703" "5754581" "5949193" "4317067" "4556981" "4837773" "4897577" "5444334" "5465030" "5854732" "6172468" "5282108" "6126435" "4804846" "5180983" "5293130" "5675072" "5444596" "5663864" "3814950" "4151446" "4369776" "4390771" "4476366" "4868546" "4994716" "5502354").pn.) and ioniz\$5) and spark	USPAT; US-PGPUB	2002/07/31 08:44
7	40	(((((("6029631" "6111740" "4855566" "4905251" "6328016" "5767683" "3612880" "4349782" "5216369" "4308488" "4871307" "5909086" "6058698" "4266196" "5317271" "5394091" "5394092" "5532599" "5541519" "4589398" "4491949" "5530365" "5874703" "5754581" "5949193" "4317067" "4556981" "4837773" "4897577" "5444334" "5465030" "5854732" "6172468" "5282108" "6126435" "4804846" "5180983" "5293130" "5675072" "5444596" "5663864" "3814950" "4151446" "4369776" "4390771" "4476366" "4868546" "4994716" "5502354").pn.) and ioniz\$5) and spark) and electrode	USPAT; US-PGPUB	2002/07/31 08:45
8	16	(((((("6029631" "6111740" "4855566" "4905251" "6328016" "5767683" "3612880" "4349782" "5216369" "4308488" "4871307" "5909086" "6058698" "4266196" "5317271" "5394091" "5394092" "5532599" "5541519" "4589398" "4491949" "5530365" "5874703" "5754581" "5949193" "4317067" "4556981" "4837773" "4897577" "5444334" "5465030" "5854732" "6172468" "5282108" "6126435" "4804846" "5180983" "5293130" "5675072" "5444596" "5663864" "3814950" "4151446" "4369776" "4390771" "4476366" "4868546" "4994716" "5502354").pn.) and ioniz\$5) and spark) and transformer	USPAT; US-PGPUB	2002/07/31 09:07
9	232	(324/464).CCLS.	USPAT; US-PGPUB	2002/07/31 08:51

10	0	(((((("6029631" "6111740" "4855566" "4905251" "6328016" "5767683" "3612880" "4349782" "5216369" "4308488" "4871307" "5909086" "6058698" "4266196" "5317271" "5394091" "5394092" "5532599" "5541519" "4589398" "4491949" "5530365" "5874703" "5754581" "5949193" "4317067" "4556981" "4837773" "4897577" "5444334" "5465030" "5854732" "6172468" "5282108" "6126435" "4804846" "5180983" "5293130" "5675072" "5444596" "5663864" "3814950" "4151446" "4369776" "4390771" "4476366" "4868546" "4994716" "5502354").pn.) and ioniz\$5) and spark) and transformer) and ((324/464).CCLS.)	USPAT; US-PGPUB	2002/07/31 08:51
11	4556	ionization NEAR2 detect\$3	USPAT; US-PGPUB	2002/07/31 09:07
12	12	((("6029631" "6111740" "4855566" "4905251" "6328016" "5767683" "3612880" "4349782" "5216369" "4308488" "4871307" "5909086" "6058698" "4266196" "5317271" "5394091" "5394092" "5532599" "5541519" "4589398" "4491949" "5530365" "5874703" "5754581" "5949193" "4317067" "4556981" "4837773" "4897577" "5444334" "5465030" "5854732" "6172468" "5282108" "6126435" "4804846" "5180983" "5293130" "5675072" "5444596" "5663864" "3814950" "4151446" "4369776" "4390771" "4476366" "4868546" "4994716" "5502354").pn.) and (ionization NEAR2 detect\$3)	USPAT; US-PGPUB USPAT; US-PGPUB	2002/07/31 09:08
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L Number	Hits	Search Text	DB	Time stamp
1	1519	((324/464-470) or (73/23.22-23.27) or (73/23.35-23.42) or (73/35.08)).CCLS.	USPAT; US-PGPUB	2002/07/31 09:29
2	5187	ionization ADJ (chamber OR detector)	USPAT; US-PGPUB	2002/07/31 09:48
3	236	((324/464-470) or (73/23.22-23.27) or (73/23.35-23.42) or (73/35.08)).CCLS.) and (ionization ADJ (chamber OR detector))	USPAT; US-PGPUB	2002/07/31 09:30
4	906	transformer SAME electrode SAME spark	USPAT; US-PGPUB	2002/07/31 09:51
5	2	((324/464-470) or (73/23.22-23.27) or (73/23.35-23.42) or (73/35.08)).CCLS.) and (ionization ADJ (chamber OR detector))) and (transformer SAME electrode SAME spark)	USPAT; US-PGPUB	2002/07/31 09:31
6	3474	ionization ADJ (chamber OR detector)	EPO; JPO; DERWENT; IBM_TDB	2002/07/31 09:48
9	537	transformer AND electrode AND spark	EPO; JPO; DERWENT; IBM_TDB	2002/07/31 09:57
10	0	(ionization ADJ (chamber OR detector)) and (transformer AND electrode AND spark)	EPO; JPO; DERWENT; IBM_TDB	2002/07/31 09:56
11	12561	transformer AND electrode	EPO; JPO; DERWENT; IBM_TDB	2002/07/31 09:57
12	12	(ionization ADJ (chamber OR detector)) AND (transformer AND electrode)	EPO; JPO; DERWENT; IBM_TDB	2002/07/31 09:57
13	1	1984-011710.NRAN.	DERWENT	2002/07/31 10:04

	Document ID	Issue Date	Pages	Title	Current OR	Current XRef
1	EP 99776 A	19840105	15	Arc-initiated ionisation detector with feedback circuit - indicates rate of ion recombination as function of particle mobility to signal presence of smoke		
2	US 4090308 A	19780523	6	Method and apparatus for signalling concentration of air conveyed ionizable foreign matter	34/478	324/464; 324/71.1; 34/79; 34/89; 55/DIG.36; 95/25; 96/399
3	US 5914604 A	19990622	7	Circuit arrangement for measuring an ion current in a combustion chamber of an internal combustion engine	324/399	324/393; 324/402; 73/35.08
4	US 6292105 B	20000706	21	Temperature sensor for arc fault detector, has alarm which is triggered when potential of collector electrode in chamber is reduced below reference voltage due to imbalance of ionization current in chamber		

	Retrieval Classif	Inventor
1		
2		Stuck, Robert M.
3		Bahr, Ulrich et al.
4		EDDINS, C L et al.